

## **Appendix B. Special Codes**

Exchange File Format

Version 3.0

### **Special Codes**

Some fields have ranges defined by special codes. The following tables define these codes.

### **Existence Flags**

Each data field has a corresponding existence code. The following are the positions for each existence code:

Column 94:	Known flag for field 1
Column 96:	Known flag for field 2
Column 98:	Known flag for field 3
Column 100:	Known flag for field 4
Column 102:	Known flag for field 5
Column 104:	Known flag for field 6
Column 106:	Known flag for field 7
Column 108:	Known flag for field 8
Column 110:	Known flag for field 9
Column 112:	Known flag for field 10

The following are valid values for Existence Flags:

0	Known, but could be unknown
1	Unknown
2	Known, and must be known (for output only)
3	Unknown, but must be known (for output only)
9	Ignore (corresponding field is not available and the value from the database or elsewhere in the exchange file should be used)

### **Obstruction Accuracy Codes**

	horizontal(ft) accuracy	vertical (ft) accuracy
1A	20 feet	03 feet
1C	20 feet	20 feet
2A	50 feet	03 feet
2C	50 feet	20 feet
1*	20 feet	-- (none: no elevation known)
2*	50 feet	-- (none: no elevation known)
1M	20 feet	?? (elevation is Estimated Maximum Elevation)
2M	50 feet	?? (elevation is Estimated Maximum Elevation)
3D	100 feet	50 feet
99	refer to the 'FAA No. 405' for specifics	

**Horizontal Datum Tie Codes**

A	BLANK (undefined)	
B	5 CM	GPS ANA
C	50 CM	GPS ADAM
D	1:100,000	CLASSICAL 1ST ORDER
E	1:50,000	CLASSICAL 2ND ORDER CLASS I
F	1:20,000	CLASSICAL 2ND ORDER CLASS II
G	1:10,000	CLASSICAL 3RD ORDER CLASS I
H	1:5,000	CLASSICAL 3RD ORDER CLASS II
I	15 FT	PHOTOGRAMMETRIC
J	> 15 FT	OTHER

**Ellipsoidal Datum Tie Codes**

A	BLANK (undefined)	
B	15 CM	GPS ANA
C	50 CM	GPS ADAM
D	1 M	ORTHO HEIGHT + GEOID HEIGHT, GEOID '96 MODEL"
E	> 1 M	OTHER

**Orthometric Datum Tie Code**

A	1.0 MM * SQRT(K)	CLASSICAL 1ST ORDER CLASS I
B	1.4 MM * SQRT(K)	CLASSICAL 1ST ORDER CLASS II
C	2.0 MM * SQRT(K)	CLASSICAL 2ND ORDER CLASS I
D	2.6 MM * SQRT(K)	CLASSICAL 2ND ORDER CLASS II
E	4.0 MM * SQRT(K)	CLASSICAL 3RD ORDER
F -	24.0 MM SQRT K-	CLASSICAL AOC VERTICAL TIE
G	25 CM -	GPS ANA
H	10 FT -	PHOTOGRAMMETRIC
I	> 10 FT -	OTHER
J	BLANK (undefined)	

**Attribute Code 1 Point Survey Status Attribute**

<i>blank</i>	Unknown/Undefined
P	Photogrammetrically Determined Position

**Attribute Code 2 Control Type Attribute**

<i>blank</i>	Unknown
A	PACS
B	SACS
C	TACS
T	Triangulation Station
L	Local Control
S	Sub Point (Photo Control)

**Attribute Code 3 Navaid Type Attribute**

Code	Abbreviation	Full Name
<i>blank</i>		Unknown/Undefined
+	APBN	Airport Beacon
=	ALS	Approach Lights
W	ARSR	Air Route Surveillance Radar
A	ASR	Airport Surveillance Radar
J	BCM	Back Course Marker
D	DME	Distance Measuring Equipment
Y	FM	Fan Marker
F	GS	Glide Slope
G	IM	Inner Marker
K	LDA	Localizer Type Directional Aid
R	LMM	Locator Middle Marker
E	LOC	Localizer
S	LOM	Locator Outer Marker
L	MLSAZ	MLS Azimuth Guidance
N	MLSEL	MLS Elevation Guidance
H	MM	Middle Marker
X	NDB	Nondirectional Beacon
#	NDB/DME	
I	OM	Outer Marker
&	PAPI	Precision Approach Path Indicator
B	PAR	Precision Approach Radar
*	PVASI	Pulsating Visual Approach Slope Indicator
\$	REIL	Runway End Identifier Lights
O	SDF	Simplified Directional Facility
:	STARS	STARS component
M	TACAN	Tactical Air Navigation
C	TDR	GCA Touchdown Reflectors
(	TRCV	Tri-color Visual Approach Slope Indicator
)	TVASI	“T”-Visual Approach Slope Indicator
-	VASI	Visual Approach Slope Indicator
P	VOR	VHF Omni Directional Range
T	VOR/DME	
Q	VORTAC	VOR + TACAN

**Attribute Code 4 Special Attribute**

<i>blank</i>	Unknown
T	Outside specified Obstruction Identification Surface (OIS)

Note: T refers to a feature which falls outside the surfaces defined in the FAA NO. 405 but which is of interest.

**Primary Condition Codes (refer to the ‘FAA No. 405’ for specifics)**

NUL	None or unknown
PIR	
ANP	

C  
D  
AV  
BV  
OEP

**Secondary Condition Codes (refer to the 'FAA No. 405' for specifics)**

NUL    None or unknown  
SUP

**Source Codes**

F - field  
O - office  
D - digitizer  
A - analytical plotter  
S - softcopy  
G - GP Survey (only used by NGS field personnel)